

## Datasheet: PHP220

<b>Description:</b>	RECOMBINANT HUMAN M-CSF
<b>Name:</b>	M-CSF
<b>Other names:</b>	MACROPHAGE COLONY-STIMULATING FACTOR
<b>Format:</b>	Rec. Protein
<b>Product Type:</b>	Recombinant Protein
<b>Quantity:</b>	10 µg

## Product Details

**Applications** This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.abdserotec.com/protocols](http://www.abdserotec.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
ELISA	■			0.2 - 0.4ng/well
Western Blotting	■			1.5 - 3.0ng/lane
Functional Assays	■			1.0 - 10.0ng/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified recombinant protein - lyophilised
<b>Reconstitution</b>	Reconstitute with 0.1ml distilled water Care should be taken during reconstitution as the protein may appear as a film at the bottom of the vial. AbD Serotec recommend that the vial is gently mixed after reconstitution.
<b>Preparation</b>	Purified recombinant M-CSF expressed in <i>E.coli</i>
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	None present
<b>Endotoxin Level</b>	<1EU/ug
<b>Approx. Protein Concentrations</b>	0.1mg/ml after reconstitution.
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">P09603</a> CSF1_HUMAN <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">1435</a> CSF1 <a href="#">Related reagents</a></p>

**Product Information** M-CSF (Macrophage colony-stimulating factor) is a potent lineage restricted haematopoietic growth factor and member of the CSF family of hormone-like glycoproteins, which plays a key role in the regulation of cellular differentiation, proliferation, and the survival of blood monocytes, tissue macrophages and their progenitor cells.

Along with sRANKL/CD254/OPGL, M-CSF is essential for osteoclastogenesis, acting through the tyrosine kinase

receptor c-fms (colony stimulating factor 1 receptor), and facilitates haematopoietic recovery following bone marrow transplantation.

<b>Molecular Weight</b>	36.8kD (159 amino acid homodimer)
<b>Activity</b>	The ED <sub>50</sub> , determined by the dose-dependent stimulation of the proliferation of M-NSF-60 cells, was ≤ 1 ng/ml corresponding to a specific activity of ≥ 1 x 10 <sup>6</sup> units/mg.
<b>Purity</b>	>98% by SDS PAGE and HPLC analysis
<b>ELISA</b>	PHP220 may be used in ELISA applications with either <a href="#">AHP1915</a> or <a href="#">AHP1915B</a> .
<b>Western Blotting</b>	PHP220 may be used under reducing or non-reducing western blotting conditions with either <a href="#">AHP1915</a> or <a href="#">AHP1915B</a> .
<b>Storage</b>	Prior to reconstitution store at +4°C. After reconstitution store at -20°C. Storage in frost-free freezers is not recommended. This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Shelf Life</b>	3 months from date of reconstitution.
<b>Health And Safety Information</b>	Material Safety Datasheet Documentation #10209 available at: <a href="http://www.abdserotec.com/uploads/MSDS/10209.pdf">http://www.abdserotec.com/uploads/MSDS/10209.pdf</a>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Useful Reagents

[RABBIT ANTI HUMAN M-CSF \(AHP1915\)](#)

[RABBIT ANTI HUMAN M-CSF:Biotin \(AHP1915B\)](#)

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